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Table 2.—Data furnished by the Canadian Meteorological Service, March 1936

Pressure					Temperature of the air							Precipitation		
Station	Altitude above mean sea level, Jan. 1, 1919	Station reduced to mean of 24 hours	Sea level reduced to mean of 24 hours	Departure from normal	Mean max.+ mean min.÷2	Departure from normal	Mean maxi- mum	Mean mini- mum	Highest	Lowest	Total	Departure from normal	Total snowfall	
Cape Race, Newfoundland	Feet 99 48 88 65 38	In. 29. 95 29. 75 29. 85 29. 92	In. 30.00 29.86 29.92 29.96	In. +0.120803 +.06	° F. 33. 2 35. 9 36. 2 39. 8 35. 4	° F. +9.7 +7.2 +9.0 +10:0	° F. 38. 0 43. 3 42. 2 46. 6 41. 7	° F. 28. 5 28. 5 30. 3 33. 1 29. 1	° F. 48 62 57 63 60	° F. 16 0 10 15 4	In. 3. 37 4. 21 6. 03 4. 61 4. 03	In, -0.72 +.5739 +.82	In. 1.0 9.2 .0 4.5 5.6	
Chatham, New Brunswick Father Point, Quebec Quebec, Quebec Doucet, Quebec Ottawa, Ontario	28 20 296 1, 236 236	29, 86 29, 87 29, 58 29, 60	29, 89 29, 89 29, 92 29, 88	02 01 04 13	33. 0 30. 7 31. 6 21. 9 29. 0	+10.0 +10.4 +10.4 +7.5	42. 4 38. 5 38. 0 32. 4 36. 9	23. 5 22. 9 25. 1 11. 4 21. 1	60 55 55 47 57	-17 -9 -8 -40 -20	2, 94 . 66 2, 72 5, 36 4, 81	53 -2. 07 54 +2. 09	11. 4 1. 2 2. 7 42. 3 11. 6	
Kingston, Ontario. Toronto, Ontario. Cochrane, Ontario. White River, Ontario. London, Ontario.		29. 55 29. 46 28. 45	29. 87 29. 89 29. 80	14 13 23	32, 3 34, 5 20, 2 19, 1 33, 9	+6.7 +7.2 +3.9	38. 9 40. 4 29. 4 30. 5 41. 2	25. 6 28. 5 10. 9 7. 8 26. 6	57 61 46 46 60	$ \begin{array}{r} -2 \\ 6 \\ -26 \\ -40 \\ -16 \end{array} $	6. 04 4. 07 3. 93 2. 85 1. 77	+3.40 +1.43 +1.47	9. 3 20. 8 19. 8 22. 1 10. 4	
Southampton, Ontario Parry Sound, Ontario Winnipeg, Manitoba Minnedosa, Manitoba Le Pas, Manitoba	656 688 760 1,690	29. 14 29. 14 29. 01 27. 99	29. 87 29. 84 29. 87 29. 87	16 18 22 19	29. 6 28. 0 18. 1 18. 4 16. 4	+4.9 +6.9 +5.8 +5.9	36. 7 35. 0 27. 0 27. 5 - 26. 6	22. 6 21. 0 9. 2 9. 2 6. 3	55 53 40 42 48	-10 -12 -25 -28 -18	1, 35 2, 98 1, 89 1, 39 2, 02	-1, 30 +, 75 +, 86 +, 74	8. 7 18. 9 18. 1 13. 6 20. 2	
Qu'Appelle, Sashatchewan Moose Jaw, Saskatchewan Swift Current, Saskatchewan Medicine Hat, Alberta Calgary, Alberta	2, 115 1, 759 2, 392 2, 365 3, 540	27. 53 27. 28 27. 38 26. 18	29. 84 	20 13 08 +. 02	20. 7 23. 5 23. 8 28. 9 25. 4	+5.8 +1.8 +1.4 8	29. 0 31. 1 30. 6 36. 6 33. 7	12. 4 16. 0 17. 1 21. 3 17. 0	45 48 49 55 58	-12 -9 -6 -5 -5	3.05 1.29 .98 .95	+2. 28 +. 17 +. 19 18	29. 3 12. 9 9. 8 8. 4 5. 4	
Prince Albert, Saskatchewan Battleford, Saskatchewan Edmonton, Alberta. Kamloops, British Columbia. Victoria, British Columbia.	1, 450 1, 592	28, 30 28, 13 27, 57 28, 66 29, 80	29, 93 29, 93 29, 92 29, 98 30, 06	-, 15 -, 13 -, 04 +, 06 +, 09	20, 6 20, 3 24, 6 36, 1 42, 0	+8.6 +7.2 +.4 .0 +.1	29. 7 30. 3 33. 5 44. 6 46. 7	11. 6 10. 4 15. 6 27. 6 37. 4	48 46 52 56 56	-3 -5 -10 12 27	. 40 . 06 . 29 . 31 2. 32	37 40 43 26 80	3.8 .6 2.9 1.3	
Estevan Point, British Columbia Prince Rupert, British Columbia	20 170				40. 4 33. 9		45. 8 39. 3	35. 0 28. 6	50 47	25 19	12. 76 7. 89		4.0	
LATE REPORTS FOR FEBRUARY 1936														
Father Point, Quebec	20 1, 236 236 808	29. 87 29. 77	29. 90 30. 06	-0.08 +.04	11. 5 -3. 6 6. 7 12. 9	0. 0 -5. 0	18.0 10.3 17.1 21.8	5. 0 -17. 4 -3. 6 4. 0	42 41 41 44	-8 -48 -20 -11	1. 37 2. 06 2. 06 2. 65	-0.84 63	13. 5 19. 6 19. 6 18. 3	
Parry Sound, Ontario	688 644 760 1, 690 1, 759	29, 28 29, 32 29, 29 28, 22	30, 02 30, 08 30, 20 30, 20	+. 01 +. 03 +. 10 +. 13	7.8 -2.8 -14.0 -14.8 -15.2	-6.5 -9.2 -12,4 -12.1	16. 4 7. 2 -4. 9 -4. 4 -6. 6	$ \begin{array}{r}7 \\ -12.8 \\ -23.1 \\ -25.2 \\ -23.9 \end{array} $	41 31 18 20 33	-23 -27 -43 -46 -48	3.71 .15 1.40 .52 .68	+. 79 75 +. 42 09	36. 8 1. 5 14. 0 5. 2 6. 8	
Medicine Hat, Alberta Edmonton, Alberta Kamloops, British Columbia Victoria, British Columbia Estevan Point, British Columbia Prince Rupert, British Columbia		27. 57 27. 80 28. 75 29. 66	30, 28 30, 31 30, 12 29, 92	+. 23 +. 29 +. 16 08	-15.8 -17.0 5.0 33.2 36.5 23.4	-27. 0 -25. 3 -23. 3 -6. 3	-6.0 -7.5 13.1 37.5 42.5 30.4	-25.6 -26.5 -3.2 28.8 30.4 16.4	45 52 49 49 50 45	-49 -51 -24 9 21 2	. 83 . 58 1. 58 4. 76 9. 21 3. 79	+. 16 09 +. 79 +. 66	8. 3 5. 8 15. 8 8. 1 3. 6 23, 1	

SEVERE LOCAL STORMS, MARCH 1936

[Compiled by Mary O. Souder from reports submitted by Weather Bureau officials]

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Big Sioux Valley, S. Dak Harrisburg, Pa., and vicinity.	6–15 7–8	P. m			\$6, 500 110, 000	Flood Ice and flood	Temporary gorging accompanying the ice movement on the night of the 7th-8th resulted in very high water stages between the northern limits of the city and Speeceville. Great damage to property occurred along both sides of the river along this stretch. The destruction was almost entirely done by huge cakes of ice which were thrown over the banks and across highways; destruction and damage to buildings, highway retaining walls and highways; water and ice filled the Dauphin subway
Miami, Fla	9	6:50 p. m		1	50, 000	Squall	and Narrows; all traffic northward tied up until evening of the 8th. Wind had tornadic characteristics; 35 persons injured by flying debris; property damage \$50,000, being confined to flimsily-constructed houses, carnival equipment and plate glass windows; all debris blown in one general direction.
Wilmington, N. C Providence, R. I	9-10 9-22				200, 000	Rain and flood	
Oklahoma Panhandle	10					Dust	
New York, south-central and eastern portions.	12					Flood	Much flooding of lowlands and cellars; some local damage to highway bridges and railroads.

MONTHLY WEATHER REVIEW

Severe local storms, March 1936—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Northfield, Vt	12					Rain and flood	Rain, which fell all day of the 12th, and warm temperature rapidly melter the large amount of snow on the ground. The rivers, mostly ice-covered jammed, overflowing their banks in many places. At Northfield, street near the river were covered in places with water to a depth of 3 feet or
Trenton, N. J	12					do	more; many cellars flooded.
Harrisburg, Pa., and vicinity Buffalo, N. Y., and vicinity	12-13 13			3	40,000	FloodBlizzard	damaged and inconvenienced. Damage to property. Maximum wind velocity of 61 miles an hour recorded; walking and driving hazardous; 2 deaths caused by poor visibility when an automobile was hid by a New York Central train; in Lancaster, one death occurred when
Colorado, southern portion Brownsville, TennAugusta, Ga	15 15 16	11-12 p. m.				Dust Electrical Tornado	House and barn destroyed; 4 cattle killed by lightning. Within a 4-mile radius southward from the business section of Augusta;
Cleveland, Ohio	16-18				2,000	Snow and wind	houses and a garage completely demolished, 5 houses damaged; 10 person injured, 2 seriously. 5.9 inches of snow fell within 24 hours on the 16th-17th, greatest of record for March, resulting in serious traffic difficulties. Severe northerly gale during the night of 17th-18th, causing snow to drift; 30-foot chimney blow.
Pittsylvania County, Va., north-central portion.	14	5:30 a. m	 	0	45, 000	Tornado	down; building damaged; several large windows broken. Damage mostly to trees and buildings; width of path from a few hundred
Knoxville, Tenn	17	a. m		} -		Snow	yards to nait a mile. Heavy snowstorm beginning in the early morning continued until late after noon; depth of snow in the downtown area 2.6 inches; in suburban sections much deeper and averaged up to 2 feet in the mountain districts east o
Greenville and Pickens Counties, S. C. Savannah, Ga	1 7 17	9 a. m.; 9 p. m.	16	 	400, 000	Winddo	Knoxville. Property damage \$25,000 and to forests \$375,000; old residents declared this to be the worst storm of its kind in their remembrance. Small hangar at airport destroyed; some damage to airplanes; light damage.
New York, western portion	17			! 	100,000	Heavy snow	struck by flying glass. Much damage to roofs and small buildings; property loss in Buffalo and
Rochester, N. Y., and vicinity.	17-18		Į.		826, 825	Glaze	vicinity \$100,000; considerable loss in smaller cities and towns. Much damage to trees: many old orchards ruined; severe loss to telephone
Asheville, N. C	17-18			- 		Snow and high winds.	and electric lines; damage to the Rochester Telephone Corporation \$400,000 and to the Electric Corporation, \$75,000. Ground covered by 10 a.m., of the 17th; by nightfall traffic and commerce was completely suspended; schools in outlying districts unable to return 75 pupils to their homes during the storm. Drifts of 5 feet genera
Erie, Pa	17-18	·				Snow and wind	throughout the city. Schools closed on the 18th. 16.1 inches of snow recorded in 24 hours; storm especially severe on account o wind making large drifts; streets and walks slippery; many automobile:
Trenton, N. J	17–19				125, 000	Rain and flood	stalled. Moderately heavy rains fell on already saturated ground and drained rapidly into the river; business interests and residences on both sides o
Buffalo, N. Y., and vicinity	17-21			5	655, 000	Snow	bad for automobile, bus, and other traffic; many highways closed; severa persons injured; more than 100 families had to be removed from their homes by boat and truck; property loss for Buffalo and vicinity \$100,000 the Peace Bridge Arena, with estimated damage of \$25,000, and 6 or mor small buildings collapsed during or immediately after the storm of the 17th. March 21; heavy snow fell from 3 a. m., until 7 p. m., with total o 9.7 inches; several roofs on small garages collapsed; Buffalo airport officially closed 17th to 26th; public schools closed 19th and 20th; the One hundred and sixth Artillery called out with their 55 tractors to help in the snow cleanup; considerable loss in Jamestown. Nigarar Falls. Locknort, and
New York, south-central and eastern New York.	18			2	4, 492, 550	Flood	other small towns in this vicinity. Heavy damage of lowland dwellings and factories; hundreds of cellars flooded; much damage to highways and bridges.
Scranton, Pa	18					Rain and flood	rose over its banks. Water rose above the first floors of houses in the "flats" sections in the northern part of city. People margoned and trave
Vermont	18					do	possible only by boat; many rescued by police and firemen. Rivers overflowed their banks and considerable damage resulted through out the State. Cellars were flooded, streets washed or undermined, and washouts on railroads tied up traffic from 2 days to more than a weak Most severe damage was on the Connecticut River in the eastern part of the State. The 2 flood-control dams, completed last fall at East Barra and Wrightsville, Vt., probably saved the Wincoski Valley from one of the worst floods in its history; streets flooded in Northfield. 1,107 acres inundated; 2,858 buildings flooded, including 262 business houses huge loss to public utilities not included in amount estimated above. Damage to highways and bridges, \$500,000, included in amount above flood stages in some portions of the State were the highest for nearly hal a century.
Harrisburg, Pa	18-19				1, 883, 260	Flood	the worst floods in its history; streets flooded in Northfield. 1,107 acres inundated; 2,858 buildings flooded, including 262 business houses
Virginia, river districts throughout the State.	18-20			4	1, 603, 500	do	nuge loss to public utilities not included in amount estimated above. Damage to highways and bridges, \$500,000, included in amount above flood stages in some portions of the State were the highest for nearly hal
Scranton, Wilkes-Barre, and Kingston, Pa., and vicinity.	20	2 a. m			25, 225, 000	do	_ u contairy.
Charleston, S. C	20	1:10 p. m	33	0	4,000	Wind	\$200,000. Damage mostly to windows and roofs; some windows blown out; path a
Augusta, Ga., 5 miles west	20			0		Tornado	mile long. Small tornado passed near the western edge of Augusta; a garage taken of
Syracuse, N. Y	20				75, 000	Flood	its foundation, 4 houses damaged, and trees uprooted. State highway along Onondaga Lake between Liverpool and Syracuss flooded to a depth of several feet; highway closed to traffic last 11 days of month; grounds along Onondaga Parkway adjacent to the lake and small buildings thereon damaged by high water and ice. Damage to Columbia Sesquicentennial decorations. A sudden gust of wind blew a child against a school bus, causing her death A dwelling demolished by wind; other damage consisted mainly of broken windows, branches of trees, and wires.
Columbia, S. C. Spencer, S. Dak	20 20			₁ -	500	Wind	Damage to Columbia Sesquicentennial decorations.

¹ Miles instead of yards.

MONTHLY WEATHER REVIEW

Severe local storms, March 1936-Continued

						ів, Матен 1936—	
Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Stanislaus County, Calif	20	7 p. m	1 20		20,000	Wind	Large trees blown down; buildings and crops damaged; storm extended
Denver, Colo	22-23					Snow	from Modesto to Newman. In the mountains west of Denver the snow piled up to a depth of 14 inches; 7.5 inches up to Monday noon in Denver; air mail service interrupted and
							7.5 inches up to Monday noon in Denver, air mail service interrupted and highway travel slow; west of Mount Harris the wet snow caused a rock slide, stopping travel in and out of Craig. Several days were required to build a detour. In southwestern Colorado, the snow closed the million-dollar highway between Silverton and Ouray; the road from Silverton to Durango also closed and highway crews had to rescue several parties of marooned motorists.
Wisconsin, western portion of State.	22-23			3	125, 000	Heavy rain and flood.	Much land inundated; loss at the State fish hatchery at Osceola, \$125,000, because of flood; 3 high-school students drowned when their automobile slipped from a flooded highway into a deep ditch.
Webster - Laclede Counties, Mo., and vicinity.	23	2:45 - 3:30 p. m.		4	150,000	Tornado, electrical and hail.	This is the most disastrous tornado to visit southwestern Missouri since the famous Marshfield tornado, 50 years ago this spring. 25 persons were injured. Thunderstorm in southern Lawrence County between 1:30 and 2 p. m. Moderate hail fell in the vicinity of Monett and Aurora. At Marioaville beavy hail fell with severe gusts of wind estimated by unofficial observers to be about 60 miles an hour; several apple orchards in this vicinity ruined. The storm moved in a clear-cut area northeastward through the small town of Republic in southwestern Green County where heavy hail fell without particular damage. At Turners Station, about 10 miles east of Springfield, a large amount of huge hailstones fell, completely ruining an automobile. One mile east of Marshfield, at 2:45 p. m., a 78-car, west-bound freight train of the San Francisco Railroad pulled up to a water tower. It became quite dark to the southwest, as a swirl seemed to form and advance. The 44th car, a 20-ton empty steel "hopper" type coal car, was the only one taken from the track by the tornado. The train was standing in a nearly due east-west line. The car was lifted straight up and moved to the north of the track, being uncoupled at both ends and the coupling pins and connections not broken. The tornado struck Rader at about 2:30 p. m. The teacher of the Kilburn school probably saved the lives of her pupils by having them leave the building which was later completely demolished, and lie down on the
Sioux Rapids, Iowa, and vicinity.	23	5:10 p. m.			15, 000	Hail and rain	ground. Windows on the west side of nearly every house in town broken by hailstones; the stones crashed through ears; electric signs in business districts shattered; nearly every window in one greenhouse broken; roofs badly damaged and several plate glass windows in store fronts smashed.
Prescott, Ark	23 23	9 p. m 11 p. m	100		600 1,500	Wind Tornado	Damage to 2 buildings. Large barn destroyed and several small buildings damaged.
Sage, Ark Mt. Carroll, Ill Dane and Green Counties,	23 23				1, 200 1, 700	Winddo	Trees, poles, and small buildings blown down. In Dane County, 3 tobacco sheds wrecked; house and barn damaged; loss
Wis., eastern sections.		}					\$700; in Green County, small buildings, silos and windmills damaged to the extent of \$1.000.
Oklahoma City, Okla	23-26					Dust	Dense duststorms occurred on the 23d and 26th; visibility reduced to from 880 to 600 yards for several hours.
Tyler, Tex_ Longview to Texarkana, Tex	24 24	1:35 a. m. 2:30 a. m.	.j 10		275, 000 1, 200, 000	Hail and wind Tornado	Heavy hail caused \$250,000 damage; straight-line winds caused \$25,000. Crop loss of \$200,000 included in amount stated.
Hodesw. Ark., and Vicinity	1 24	3 a. mdo		0	500 10,000	Hail and wind	Property damaged. \$5,000 crop loss due to hail.
Kilgore, Tex	24 24	4 a. m	440-1, 760	0	. 4,000	Wind Tornado	Damage to buildings. 4 persons injured; damage to orchards, buildings, rice farms, and equipment;
Almyra, Ark., and vicinity	24	5 a. m	. 11	0	5, 000	do	path 35 miles long. Barns and sheds blown down; several houses unroofed; derricks and pumping sheds severely damaged.
Knoxville, Tenn	24	7:45 a. m.	.	-		Thunderstorm	An electric main struck by lightning causing the downtown section to be without lights and power for nearly an hour.
Chattanooga, Tenn	24	10 a. m		-	· · · · · · · · · · · · · · · · · · ·	Wind, rain, elec- trical.	A number of small buildings leveled; roofs from large buildings ripped off;
Chicago, Ill.	24			-			over its operating area; a power line struck by lightning.
• .						1	ing visibility in many sections. United Air Line pilots report the densest point of the storm over Watertown, Ill., where dust blanketed out the
	24	ĺ	Ì			do	ground completely. The dust wall rose nearly 2 miles above the surface. Planes were flying 9,000 feet to keep above it. Dust accompanied southerly winds most of the day and sifted down on
Terre Haute, Ind	. 24				-	ao	the city. During the early morning when a shower occurred, it literally rained mud. Dust sifted through closed windows into houses.
Pleasant Hill, Miss Memphis, Tenn	24 24				50,000	Thundersquall Thundersquall	3 houses demolished.
Pulaski, Tenn	24			-	500	and hail. Thunderstorm	and lightning. Damage to buildings.
Winchester, Tenn Pittston and Duryea, Pa	. 24 . 24				25, 000 600, 000	Wind	One of the most serious results was the flooding of the anthracite mines by
Buffalo, N. Y., and vicinity	25-28			_ 1	300,000	do	the Lackawanna River. 7,000 men out of work for an indefinite period; \$600,000 appropriated by U. S. Government for pumping out the water. 6 or more bridges damaged or washed out; worst flood conditions in South Buffalo, Amherst, and Ellicott Creek sections; 20 square miles in Amherst
South Dakota, southern portion. Lake Village, Ark	. 26 . 26 26	5 p. m			1,000		section inundated on the 27th by flood waters from Tonawanda, Ellicott, and other creeks; many families on farms marooned; in Jamestown area there were similar conditions, with estimated property damage of over \$50,000. I death by drowning. Air filled with particles of hard diven snow; visability reduced to less than a block in Sioux Falls; at Yankton, 4.5 inches of snow fell, and at Sioux Falls 3.5 inches. Dust was reported at the same time snow was falling at these 2 stations. Damage to buildings.
Walla Walla, Wash	26-27		-	-		2 duststorms	2 strong duststorms occurred on the 26th and 27th. They were unusually
Tucumcari and Clovis, N. Mex., and Oklahoma Pan- handle.	30			-	-	Duststorms	severe and of longer duration than is common at this station, and resulted in heavy dust deposits. On the 27th, artificial light was necessary in the early atternoon; visibility 600 feet at height of storm. Rain that fell through the dust caused a coating of mud to be deposited. Traffic virtually paralyzed by silt-laden clouds carried by a 40-mile wind. The mercury fell from 68° to 24° at Guymon, Okla. This storm extended eastward as far as Enid, Okla.

¹ Miles instead of yards.

